

12J5

Description and Rating

GENERAL-PURPOSE TRIODE

GENERAL DESCRIPTION

Principal Application: The 12J5 is a medium-mu general-purpose triode designed for use as an amplifier, an oscillator, or a detector. Except for heater ratings, the 12J5 is identical to the 6J5.

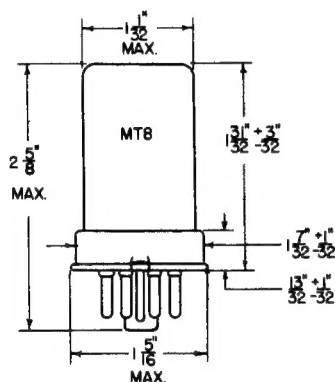
Cathode: Coated Unipotential
Heater Voltage (A-C or D-C). 12.6 Volts
Heater Current 0.15 Ampere
Envelope: MT-8, Metal Shell
Base: B6-23, Small Wafer Octal 6-Pin

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Mounting Position: Any
Direct Interelectrode Capacitances: *

Grid to Plate	3.4	μf
Input	3.4	μf
Output	3.6	μf

PHYSICAL DIMENSIONS

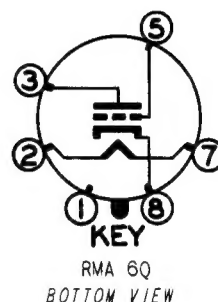


RMA 8-1

TERMINAL CONNECTIONS

Pin 1 - Shell
Pin 2 - Heater
Pin 3 - Plate
Pin 5 - Grid
Pin 7 - Heater
Pin 8 - Cathode

BASING DIAGRAM



DESIGN CENTER VALUES:

Plate Voltage	300	Volts
Positive D-C Grid Voltage	0	Volts
Plate Dissipation	2.5	Watts
Total Cathode Current	20	Milliamperes
D-C Heater-Cathode Voltage	90	Volts

CLASS A₁ AMPLIFIER

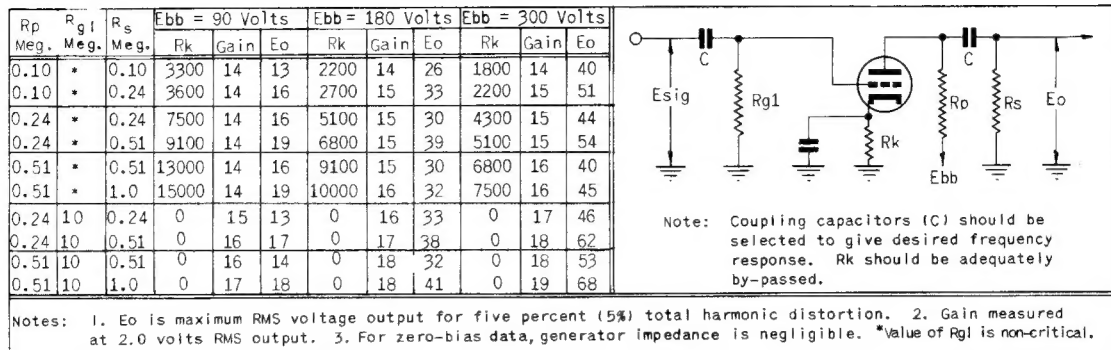
CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	90	250	Volts
Grid Bias Voltage **	0	-8	Volts
Amplification Factor	20	20	
Plate Resistance	6700	7700	Ohms
Transconductance	3000	2600	Micromhos
Plate Current	10	9.0	Milliamperes

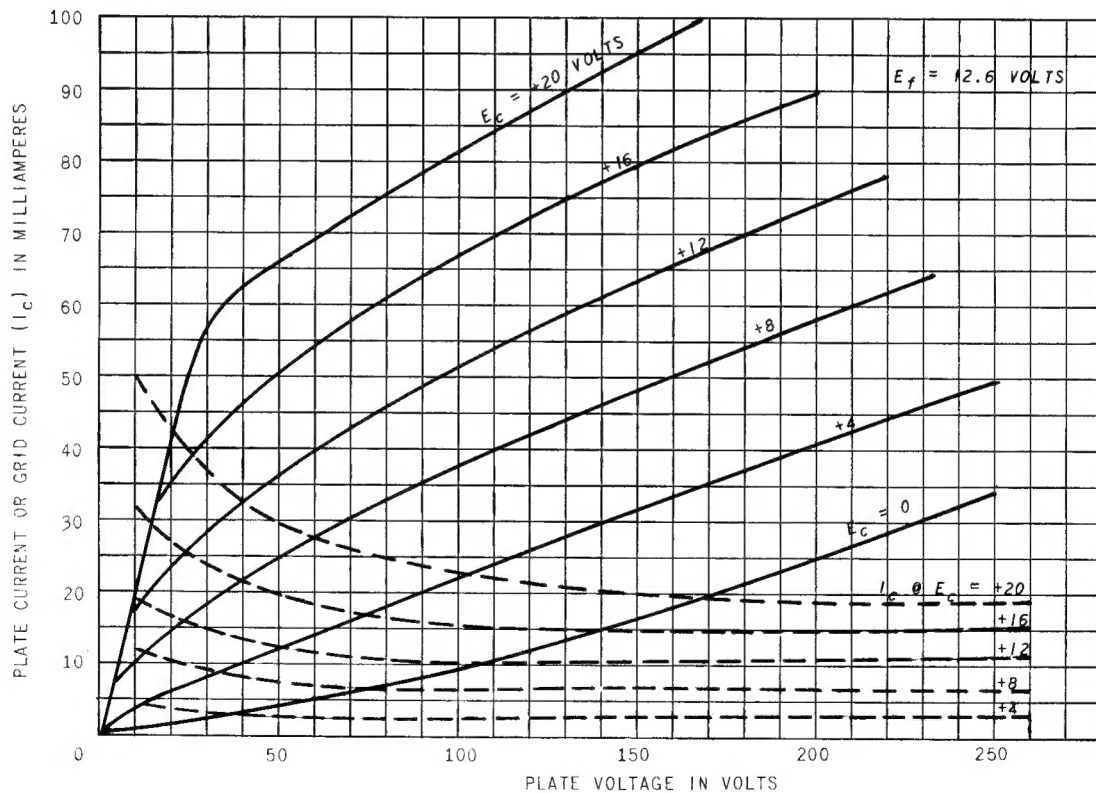
* With shell connected to cathode

** The d-c resistance in the grid circuit under maximum rated conditions should not exceed 1.0 megohm.

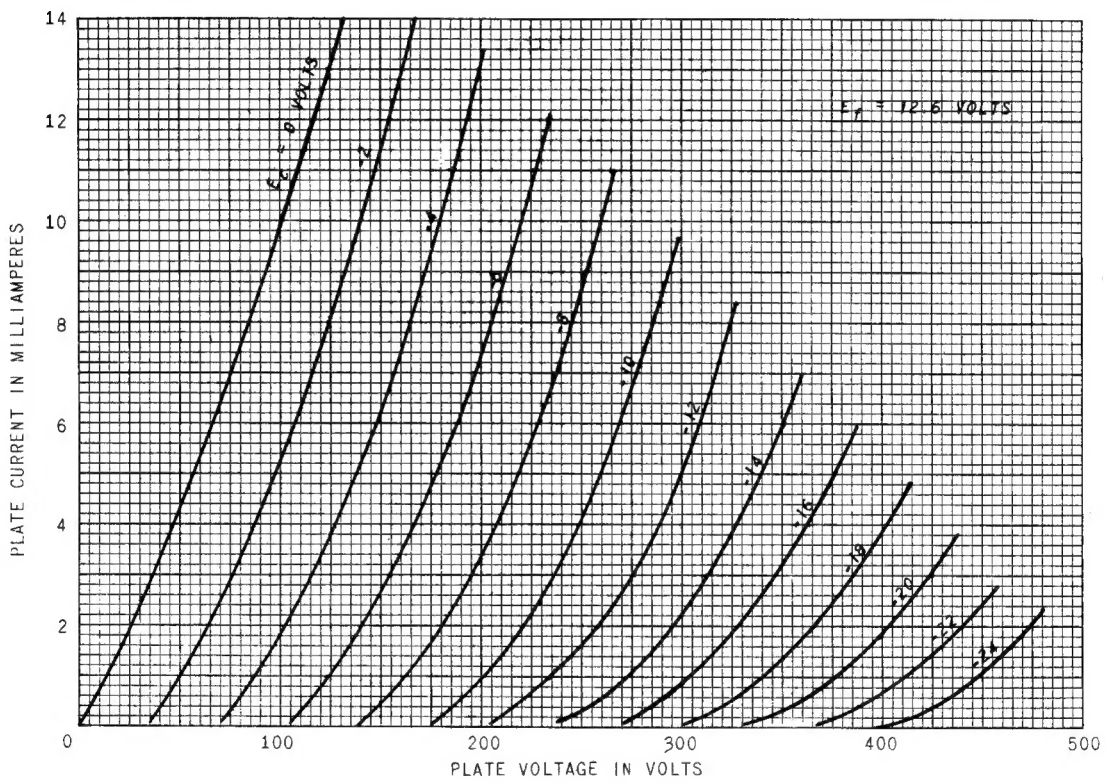
CLASS A RESISTANCE-COUPLED AMPLIFIER



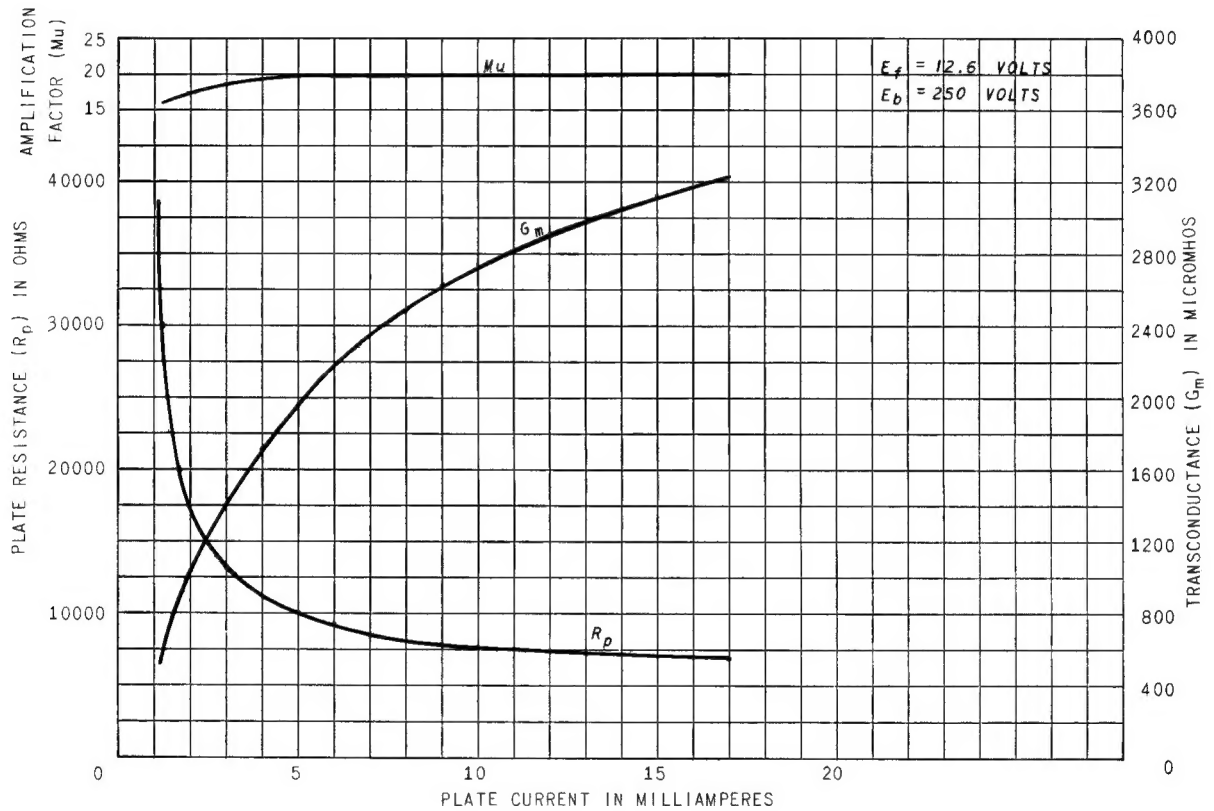
AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



Tube Divisions, Electronics Department

GENERAL  ELECTRIC

Schenectady, N. Y.